

ATTACHMENT J26

Sheppard AFB Wastewater Collection System

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J26 Sheppard AFB Wastewater Collection System

J26.1 Sheppard AFB Overview

Sheppard AFB, located immediately north of Wichita Falls in Wichita County, Texas, is an Air Education and Training Command (AETC) installation that conducts technical, medical, field, and pilot training. The host command is the 82nd Training Wing (82 TRW), the largest of the four AETC technical training wings. The Base's primary tenant is the 80th Flying Training Wing (80 FTW), which trains pilots under the Euro NATO Joint Jet Pilot Training (ENJJPT) Program.

Sheppard AFB occupies 5,719 acres and contains approximately 1,120 buildings with a total of 8.6 million square feet.¹ Four parallel runways bound the Base to the northeast, and approximately 220 functional aircraft (T-37s and T-38s) are assigned to the 80 FTW.

The Base has a total population of approximately 24,000, including military personnel, civilian employees and support personnel, students, and dependents. Sheppard AFB's annual payroll is approximately \$315 million (combined military and civilian), and the Base contributes significantly to the local economy through civilian employment, contracting, and purchases from local businesses.

J26.2 Wastewater Collection System Description

J26.2.1 Wastewater Collection System Fixed Equipment Inventory

The Sheppard AFB wastewater collection system consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right of Way to point in which the collection system connects to the public sanitary collection system. The system may include, but is not limited to, pipelines, manholes, lift stations, valves, controls, and meters. The actual inventory of items sold will be established in the Bill of Sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the collection system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

¹ The nonresidential structures include offices, industrial maintenance and repair facilities, and community service facilities such as Sheppard Hospital. The housing units include detached single residences, townhouses, Visiting Officers' Quarters (VOQs), Visiting Airmens' Quarters (VAQs), and Temporary Lodging Facilities (TLFs).

Specifically excluded from the wastewater collection system privatization are:

- Storm Sewers
- Oil Water Separators
- Septic systems
- Grease Traps

J26.2.1.1 Description

The wastewater collection system at Sheppard AFB includes approximately 351 miles of conveyance pipe and three lift stations; the pipe consists of approximately 117 miles of mains and 234 miles of laterals. There are no wastewater treatment facilities on Base. Approximately 83 miles of pipe is vitrified clay, likely installed prior to about 1960. Pipe condition is generally good on the main Base, but pipes in the housing areas experience periodic blockages caused by pipe collapse, offset joints, or grease buildup.

The on-Base lift stations are each composed of two submersible pumps located in a concrete wet well. Pump controls are based on float switches placed at varying levels. Pump operation alternates with each pump start to ensure even pump wear. Emergency generators are provided at each station to provide power in the event of an electrical outage.

On-Base manhole condition is good, even though manhole age is generally the same as the pipe. Most manholes are of brick construction, but newer installations consist of precast concrete sections.

J26.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater collection system fixed assets for the Sheppard AFB wastewater collection system included in the sale.

TABLE 1
Fixed Inventory
Wastewater Collection System, Sheppard AFB

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe	2	744	lf	1994
	3	1,740	lf	1994
	4	1,411,673	lf	1994
Vitrified Clay Pipe	5	363	lf	1960
	6	59,640	lf	1960
	8	369,246	lf	1960
	10	5,523	lf	1960
	12	2,262	lf	1960
Standard Sanitary Sewer Manhole		1,305	ea	1960
Wastewater Lift/Pump Station		2	ea	1960
Emergency Generators		2	ea	1995
Hercules Model D2300TX324; Diesel powered, 1800 rpm				
Hanco Model 30RHF22DWLW; 30 KW, 277 / 480 volt, 3 ph				

PVC = Polyvinyl Chloride LF = Linear Feet
EA = Each

J26.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the sale. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts

Wastewater Collection System, Sheppard AFB

Qty	Description	Make/Model	Remarks
4	Manhole pullers		
1	Sludge gulper		
1	Sewer jet		Truck mounted, high pressure
2	Lift Station pump	Paco Model 51-NSC-49511	Submersible, 7.5 hp, 450 gpm @ 30'

TABLE 3

Specialized Vehicles and Tools

Wastewater Collection System, Sheppard AFB

Description	Quantity	Location	Maker
No specialized vehicles or tools are included in the privatization of this utility system.			

J26.2.3 Wastewater Collection System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4

Manuals, Drawings, and Records

Wastewater Collection System, Sheppard AFB

Qty	Item	Description	Remarks
1	CD	Utility System Drawings	

J26.3 Specific Service Requirements

The service requirements for the Sheppard AFB wastewater collection system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Sheppard AFB wastewater collection system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

- The Contractor shall enter into a Memorandum of Understanding with the Sheppard Air Force Base Fire Department for fire protection of all facilities included in the purchase of the utility. The Contractor shall abide by Sheppard AFB fire protection requirements. The Contractor shall maintain the fire alarm system for all facilities included in the purchase of the utility. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.
- IAW Paragraph C.9.8, *Exercises and Crisis Situations Requiring Utility Support*, the Contractor shall provide support as directed by the Sheppard Air Force Base Civil Engineer Control Center or equivalent agency for exercises and crisis situations.

J26.4 Current Service Arrangement

Wastewater treatment is provided by the City of Wichita Falls. Sheppard AFB currently has a peak wastewater demand of 51 million gallons per month. Key projects planned for Sheppard may increase the total square footage of buildings on Base by about 6 percent

J26.5 Secondary Metering

The city owns and is responsible for the wastewater meters that are used to bill the government for the wastewater service.

There are currently no requirements for secondary metering of wastewater included in this contract. Any future wastewater secondary metering requested by the Government will be IAW Paragraph C.3, Future Secondary Meters.

J26.6 Submittals

The Contractor shall provide the Government submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to:

Name: 82th Ces/CERS

Address: 231 9th Street, Sheppard AFB TX 76311

Phone number: (940) 676-6287

2. Blockage Report. The Contractor's monthly blockage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Blockage reports shall be submitted by the 25th of each month for the previous month. Blockage reports shall be submitted to:

Name: 82th CES/CERS

Address: 231 9th Street, Sheppard AFB TX 76311

Phone Number: (940) 676-5689

J26.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3, Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I.

- None

J26.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Sheppard AFB boundaries.

J26.9 Off-Installation Sites

No off-installation sites are included in the sale of the Sheppard AFB wastewater collection system.

J26.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 5

Service Connections and Disconnections

Wastewater Collection System, Sheppard AFB

Location	Description
	The Government does not require any connection or disconnections during the transition period.

J26.11 Government Recognized System Deficiencies

Table 6 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Sheppard AFB wastewater collection system. If the collection system is sold, the Government will not accomplish these improvement projects. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through Schedule L-3. Renewal and Replacement projects will be recovered through Sub-CLIN AB.

TABLE 6

System Deficiencies

Wastewater Collection System, Sheppard AFB

Project Identifier/Location	Project Description
Replace Sanitary Sewer Pipe J Ave	Replace approximately 5,000 linear feet of sanitary sewer mains along Ave J from 10th for 1st St. The existing 27-inch sewer main has deteriorated to the point that replacement is required.
Replace Sewer Mains ENJ Ph 1	Replace 2,800 of clay sewer mains and associated manholes. Sewer mains service Bldgs 2562, 2558, 2550, and 2400 series maintenance hangers. Sewer main is located in the north end of the base between 22 nd and 23 rd Streets. Previous study identified areas of infiltration/inflow and cross connections with storm sewer systems.
Replace Sewer Mains ENJ Ph 2	Replace 2,400 of clay sewer mains and associated manholes. Sewer mains service student dorm Bldg 716,726,776,790, and 740. Sewer main is located along 8th St, from Ave E to Ave K. Previous study identified areas of infiltration/inflow and cross connections with storm sewer systems.
Replace Sewer Mains ENJ Ph 3	Replace 3,000 linear feet of clay sewer main and associated manholes. Sewer mains service student dorm Bldg 516,526,596. Sewer main is located between 5th and 6th St, from Ave E to Ave K. Previous study identified areas of infiltration/inflow and cross connections with storm sewer systems.
Repair Sewer lines Wherry Housing Ph2	Repair and replace approximately 6,000 linear feet of clay piping in the sanitary sewer mains of Wherry housing area. Work will include pipe bursting, service reconnection, and lining of existing manholes. Based on AETC inspection the entire system is in great state of disrepair.
Repair Sewer Lines Capehart Housing Ph 1	Repair and replace approximately 10,000 linear feet of concrete piping in the sanitary sewer mains of Capehart housing area. Work will include sewer main replacement, service reconnection and lining of existing manholes. Based on AETC inspection the entire system is in great state of disrepair.
Replace Sewer Lines Capehart Housing Ph 2	Repair and replace approximately 10,000 linear feet of concrete piping in the sanitary sewer mains of Capehart housing area. Work will include sewer main replacement, service reconnection and lining of existing manholes. Based on AETC inspection the entire system is in great state of disrepair.